

CLAIMS

What is claimed is:

1. A multiplier circuit comprising:
a frequency generating circuit which generates an output signal at a rate
that is a multiple of input frequency;
a phase comparator which directly compares the phase of an edge of the
input signal with the phase of an edge of the output signal and controls the
frequency generating circuit based on the comparison.
2. A multiplier circuit as claimed in claim 1 further comprising a window signal
applied to the phase comparator, the window signal being true during edges of
the input signal and output signal to be compared.
3. A multiplier as claimed in claim 2 further comprising a divider which frequency
divides the output signal to provide the window signal.
4. A multiplier circuit as claimed in claim 3 wherein the frequency generating
circuit is a voltage-controlled oscillator.
5. A multiplier circuit as claimed in claim 1 wherein the frequency generating
circuit is a voltage-controlled oscillator.
6. A method of frequency multiplying comprising:
generating an output signal at a rate that is a multiple of an input signal;
and

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